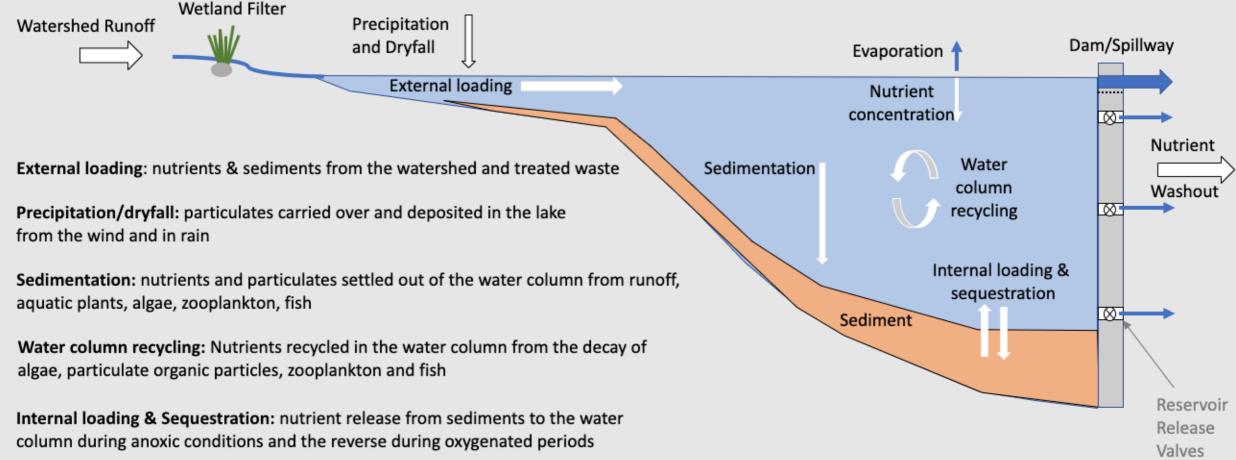
## Simplified Nutrient Dynamics in Lakes

Nitrogen & Phosphorus: macro nutrients that drive cyanobacterial growth

Nutrient dynamics in lakes and reservoirs are controlled by a complex set of external and internal processes. All of these processes are at work but often they may be dominated by one or two. Lakes and reservoirs with deep, nutrient-rich sediments can release large amounts of nutrients under anoxic conditions. Often the dominant nutrient sources vary seasonally with changes in thermal stratification and the rainy season. Every lake has its own characteristics and it is important to understand these processes to develop effective management strategies.



**Nutrient Washout:** Nutrient release from the lake via over flow or from reservoir through control structures (release valves  $\otimes$ )